



## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

#2

Applicant : Andrew S. Wright ) Group Art Unit: Unknown **RECEIVED**  
 App. No. : 09/764,680 )  
 Filed : January 18, 2001 )  
 For : ADVANCED ADAPTIVE )  
       PRE-DISTORTION IN A )  
       RADIO FREQUENCY )  
       TRANSMITTER )  
 Examiner : Unknown )  
 )  
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APR 12 2001

Technology Center 2600

INFORMATION DISCLOSURE STATEMENT

Assistant Commissioner for Patents  
Washington, D.C. 20231

Dear Sir:

We are enclosing a form PTO-1449 listing thirty-three (33) references that are also enclosed. This Information Disclosure Statement is being filed within three months of the filing date of this application, and no fee is required in accordance with the provisions of 37 C.F.R. § 1.97(b)(1).

Identification herein is not an admission that any of the foregoing references are prior art to the above-captioned application.

Respectfully submitted,

KNOBBE, MARTENS, OLSON & BEAR, LLP

By: Michael S. Okamoto

Dated: March 26, 2001

Michael S. Okamoto  
 Registration No. P-47,831  
 Attorney of Record  
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<p style="text-align: right;">O P E JC88 FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE</p> <p>MAR 29 2001 INFORMATION DISCLOSURE STATEMENT BY APPLICANT</p> <p>PATENT &amp; TRADEMARK OFFICE USE SEVERAL SHEETS IF NECESSARY)</p>		ATTY. DOCKET NO. DATUMTE.007A	APPLICATION NO. 09/764,680
		APPLICANT Andrew S. Wright	RECEIVED APR 12 2001
		FILING DATE January 18, 2001	GROUP ART UNIT UNKNOWN

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)
1		4,291,277	9/22/81	Davis, et al.			
2		4,329,655	5/11/82	Nojima, et al.			
3		4,700,151	10/13/87	Nagata			
4		5,049,832	9/17/91	Cavers			
5		5,089,782	2/18/92	Pike, et al.			
6		5,093,667	3/3/92	Andricos			
7		5,675,285	10/7/97	Winters			
8		5,682,336	10/28/97	Chian, et al.			
9		5,818,298	10/6/98	Dent, et al.			
10		5,842,140	11/24/98	Dent, et al.			
11		5,900,778	5/4/99	Stonick, et al.			
12		5,905,760	5/18/99	Schnabl, et al.			
13		5,990,738	11/23/99	Wright, et al.			

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
14	EP 0544117A1	10/28/92	European				
15	EP 0881807A1	6/2/93	European				
16	DE 3307309A1	9/13/84	Germany				
17	GB 2282291A	3/29/95	United Kingdom				

EXAMINER	DATE CONSIDERED
<p>*EXAMINER: INITIAL IF CITATION CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP 609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED, INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.</p>	

OIE FORM PTO-1449

U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

MAR 29 2001

INFORMATION DISCLOSURE STATEMENT  
BY APPLICANT

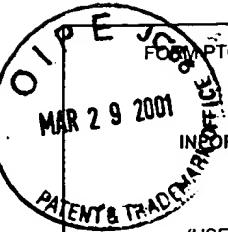
(USE SEVERAL SHEETS IF NECESSARY)

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EXAMINER INITIAL	OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)
18	A. Bateman, D.M. Haines and R.J. Wilkinson, "Linear Transceiver Architectures," 38 <sup>th</sup> IEEE Vehicular Technology Conference, Philadelphia, PA, pp. 478-484, dated June 15-17, 1988.
19	R.D. Stewart and F.F. Tusubira, "Feedforward Linearisation of 950 MHz Amplifiers," IEE Proceedings, Volume 135, Pt. H, No. 5, pp. 347-350, dated October 1988.
20	J.K. Cavers, "Amplifier Linearization Using a Digital Predistorter with Fast Adaptation and Low Memory Requirements," IEEE Transactions on Vehicular Technology, Volume 39, No. 4, pp. 374-382, dated November 1990
21	Y. Nagata, "Linear Amplification Technique for Digital Mobile Communications," IEEE Transactions on Vehicular Technology, pp. 159-164, (1989).
22	E.A. Lee and D.G. Messerschmitt, "Digital Communication," Kluwer Academic Publishers, Chapter 15, pp. 566-569, (1990).
23	A.A.M. Saleh and J. Salz, "Adaptive Linearization of Power Amplifiers in Digital Radio Systems," The Bell System Technical Journal, Volume 62, No. 4, pp. 1019-1033, dated April 1983.
24	Andrew S. Wright and Willem G. Durtler "Experimental Performance of an Adaptive Digital Linearized Power Amplifier," IEEE Transactions on Vehicular Technology, Volume 41, No. 4, pp. 395-400, dated November 1992.
25	J. K. Cavers, "The Effect of Quadrature Modulator and Demodulator Errors on Adaptive Digital Predistorters for Amplifier Linearization," IEEE Transactions on Vehicular Technology, Volume 46, No. 2, pp. 456 – 466, May 1997.
26	L. Sundstrom, M. Faulkner, and M. Johansson, "Quantization Analysis and Design of A Digital Predistortion Linearizer for RF Power Amplifiers," IEEE Transactions on Vehicular Technology, Volume 45, No. 4, pp. 707-719, dated November 1996.
27	M. Faulkner and M. Johansson, "Adaptive Linearization Using Predistortion - Experimental Results," IEEE Transactions on Vehicular Technology, Volume 43, No. 2, pp. 323-332, dated May 1994.
28	J. K. Cavers, "A Linearizing Predistorter with Fast Adaptation," 40th IEEE Vehicular Technology Conference, pp. 41-47, dated May 1990.
29	International Search Report for PCT Application No. PCT/IB/00/01038.
30	International Search Report for PCT Application No. PCT/IB/00/01044.
31	International Search Report for PCT Application No. PCT/IB/00/01047.
32	International Search Report for PCT Application No. PCT/IB/00/01049.
33	International Search Report for PCT Application No. PCT/IB/00/01051.

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